

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0003077 Effective Date: September 15, 2016 Expiration Date: August 31, 2021

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, and Parts I and II of this permit, as set forth herein.

> Owner: DuPont Teijin Films **DuPont Teiiin Films** Facility Name:

County: Chesterfield

Facility Location: 3600 Discovery Drive

The owner is authorized to discharge to the following receiving stream:

Stream: James River River Basin: James River

River Subbasin: NA Section: 10 Class: Ш Special Standards: **PWS**

Deputy Regional Director, Piedmont Regional Office
Date

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A. <u>Limitations and Monitoring Requirements – Outfall 001</u>

- 1. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **001 (Dry Weather)** -- HVAC Condensate, Cooling Tower and Boiler Blowdown, Fire Suppression Makeup Water, Outfall 101, Outfall 102.
 - a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT		DISCHARGE LIMITS					MONITORING REQUIREMENTS		
CHARACTERISTICS	MONTHLY	AVERAGE	WEEKLY	Instantaneous	MA	XIMUM	FREQUENCY	SAMPLE	
OUTFALL 001	mg/L	g/d*	AVERAGE	MINIMUM	mg/L	g/d*	FREQUENCT	TYPE	
001 - Flow (MGD)	NL	NL	NA	NA	NL	NL	Continuous	Recorded	
002 - pH (standard units) [1]	N	IA	NA	6.0		9.0	Continuous	Recorded	
004 - Total Suspended Solids	NL	100 kg/d [4]	NA	NA	NL	170 kg/d ^[4]	1 per Week	24 HC	
005 - Total Residual Chlorine	NL	NL	NA	NA	0.50	NL	1 per Week	Grab	
012 - Total Phosphorus	2.0	1500 ^[4]	NA	NA	NL	NL	1 per Week	24 HC	
013 - Total Nitrogen [2]	NL	NL	NA	NA	NL	NL	1 per Week	24 HC	
038 - DO (Nov – May) [3] [6]	M	onthly Average	Minimum of 3.	1 mg/L	NA	NA	1 per Day	Grab	
317 - DO (June – Oct) [3] [6]	M	onthly Average	Minimum of 5.8	8 mg/L	NA	NA	1 per Day	Grab	
039 - Ammonia as Nitrogen	NL	3600 ^[4]	NA	NA	NL	7300 [4]	1 per Week	24 HC	
120 - E. coli (geometric mean)	١	IL	NA	NA	NA	NA	1 per Year	Grab	
159 – CBOD ₅	NL	69 kg/d	NA	NA	NL	152 kg/d	1 per Week	24 HC	
872 - Dissolved Sulfide [6]	NL	NL	NA	NA	NL	NL	1 per 6 Months	Grab	
328 - Hydrogen Sulfide ^[6]	NL	NL	NA	NA	NL	NL	1 per 6 Months	Calculated	

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- *unless otherwise specified.
- [1] See Part I.C.15.
- [2] Total Nitrogen is the sum of Total Kjeldahl Nitrogen and Nitrites plus Nitrates.
- [3] See Part I.C.10.
- [4] This limitation is expressed in two significant figures.
- [5] Dissolved Oxygen limitations are expressed as minima.
- [6] The concentration of un-ionized hydrogen sulfide (H2S) shall be calculated and reported on the DMR in accordance with Standard Methods (SM) 4500 S2 H (dissolved sulfide sample pH, temperature, and conductivity will need to be determined in order to perform this calculation). If the sample results of dissolved sulfide are below the quantification level specified in Part I.C.6, then the concentration of un-ionized H2S should be reported as "<QL."

"NA" means not applicable.

"NL" means no limitation is established. Monitoring and reporting are required.

"24 HC" means 24-hour composite.

"1 per 6 Months" means once per six months in accordance with the following schedule: First half of year (January 1 – June 30) to be reported on the DMR due July 10 of each year; second half of year (July 1 – December 31) to be reported on the DMR due January 10 of each year. The first semiannual monitoring period begins January 1, 2017.

"1 per Year" means one sample collected each complete calendar year (January 1 – December 31) to be reported on the DMR due January 10 of the following year. The first annual monitoring period begins January 1, 2017.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

A. <u>Limitations and Monitoring Requirements – Outfall 901</u>

2. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **901** – Outfall 001 during wet weather events.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT		DISCHARG	E LIMITS		MONITORING REQUIREMENTS		
CHARACTERISTICS OUTFALL 901	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE	
001 - Flow (MG)	NL	NA	NA	NL	1 per 3 Months	Estimate	
004 - Total Suspended Solids (TSS) [2] (mg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	
012 – Total Phosphorus (mg/L) [2]	NL	NA	NA	NL	1 per 6 Months	Grab	
013 - Total Nitrogen (mg/L) [1]	NL	NA	NA	NL	1 per 6 Months	Calculated	
068 - Total Kjeldahl Nitrogen (TKN) (mg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	
361 - Iron, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	
389 - Nitrite + Nitrate (mg/L) [2]	NL	NA	NA	NL	1 per 6 Months	Grab	
410 - Aluminum, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	
442 - Copper, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 3 Months	Grab	
448 - Zinc, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 3 Months	Grab	
922 - Magnesium, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	

[&]quot;NA" means not applicable.

- [1] Total Nitrogen, which is the sum of TKN and Nitrate + Nitrite, shall be derived from the results of those tests.
- [2] Monitoring and reporting are only required during the first two years of the permit term (i.e. four monitoring periods).
- b. See Part I.E. for additional stormwater management requirements.
- c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

[&]quot;NL" means no limitation is established. Monitoring and reporting are required.

[&]quot;Estimate" means an estimate of the total volume of the discharge during the storm event.

[&]quot;1 per 3 Months" means monitoring in accordance with the following schedule: 1st quarter (January 1 – March 31); 2nd quarter (April 1 – June 30); 3rd quarter (July 1 – September 30); 4th quarter (October 1 – December 31). The DMR is due on the 10th of the month in the month following the quarter. The first quarterly monitoring period begins October 1, 2016.

[&]quot;1 per 6 Months" means once per six months in accordance with the following schedule: First half of year (January 1 – June 30) to be reported on the DMR due July 10 of each year; second half of year (July 1 – December 31) to be reported on the DMR due January 10 of each year. The first semiannual monitoring period begins January 1, 2017.

A. <u>Limitations and Monitoring Requirements – Outfall 101</u>

- 3. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **101** Process Wastewater Treatment Plant.
 - a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT			DISCHARGE	LIMITS			MONITOR REQUIREM	
CHARACTERISTICS	MONTHLY	AVERAGE	WEEKLY		MAXI	MUM		SAMPLE
OUTFALL 101	mg/L	kg/d	AVERAGE	MINIMUM	mg/L	kg/d	FREQUENCY	TYPE
001 - Flow (MGD) ^[1]	NI	_	NA	NA	N	IL .	1 per Week	Estimate
003 - BOD ₅ (mg/L)	NL	3.7	NA	NA	NL	9.8	1 per Week	24 HC
004 - TSS (mg/L)	NL	6.1	NA	NA	NL	20	1 per Week	24 HC
274 - Acenaphthene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
204 - Acrylonitrile	NL	0.015	NA	NA	NL	0.0370	1 per Year	Grab
216 - Benzene	NL	0.0057	NA	NA	NL	0.0208	1 per Year	Grab
236 - Carbon Tetrachloride	NL	0.0028	NA	NA	NL	0.0058	1 per Year	Grab
280 - Chlorobenzene	NL	0.0023	NA	NA	NL	0.0043	1 per Year	Grab
263 - 1,2,4-Trichlorobenzene	NL	0.010	NA	NA	NL	0.0214	1 per Year	Grab
289 - Hexachlorobenzene	NL	0.0023	NA	NA	NL	0.0043	1 per Year	Grab
260 - 1,2-Dichloroethane	NL	0.010	NA	NA	NL	0.0323	1 per Year	Grab
218 - 1,1,1-Trichloroethane	NL	0.0032	NA	NA	NL	0.0083	1 per Year	Grab
291 - Hexachloroethane	NL	0.0032	NA	NA	NL	0.0083	1 per Year	Grab
378 - 1,1-Dichloroethane	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
373 - 1,1,2-Trichloroethane	NL	0.0032	NA	NA	NL	0.0083	1 per Year	Grab
281 - Chloroethane	NL	0.0159	NA	NA	NL	0.0410	1 per Year	Grab
223 - Chloroform	NL	0.0032	NA	NA	NL	0.0070	1 per Year	Grab
267 - 2-Chlorophenol	NL	0.0047	NA	NA	NL	0.015	1 per Year	Grab
259 - 1,2-Dichlorobenzene	NL	0.012	NA	NA	NL	0.0249	1 per Year	Grab
264 - 1,3-Dichlorobenzene	NL	0.0047	NA	NA	NL	0.0067	1 per Year	Grab
266 - 1,4-Dichlorobenzene	NL	0.0023	NA	NA	NL	0.0043	1 per Year	Grab
258 - 1,1-Dichloroethylene	NL	0.0024	NA	NA	NL	0.0038	1 per Year	Grab
262 - 1,2-trans-Dichloroethylene	NL	0.0032	NA	NA	NL	0.0083	1 per Year	Grab
268 - 2,4-Dichlorophenol	NL	0.0060	NA	NA	NL	0.0171	1 per Year	Grab
261 - 1,2-Dichloropropane	NL	0.0234	NA	NA	NL	0.0352	1 per Year	Grab

EFFLUENT			DISCHARGE	LIMITS			MONITOR REQUIREM	
CHARACTERISTICS	MONTHLY	AVERAGE	WEEKLY		MAX	IMUM		SAMPLE
OUTFALL 101	mg/L	kg/d	AVERAGE	MINIMUM	mg/L	kg/d	FREQUENCY	TYPE
265 - 1,3-Dichloropropylene	NL	0.0044	NA	NA	NL	0.0067	1 per Year	Grab
269 - 2,4-Dimethyphenol	NL	0.0028	NA	NA	NL	0.0055	1 per Year	Grab
239 - 2,4-Dinitrotoluene	NL	0.0173	NA	NA	NL	0.0436	1 per Year	Grab
240 - 2,6-Dinitrotoluene	NL	0.0390	NA	NA	NL	0.0980	1 per Year	Grab
172 - Ethylbenzene	NL	0.0049	NA	NA	NL	0.0165	1 per Year	Grab
287 - Fluoranthene	NL	0.0038	NA	NA	NL	0.010	1 per Year	Grab
205 - Methylene Chloride	NL NL	0.0061	NA	NA	NL	0.014	1 per Year	Grab
292 - Methyl Chloride	NL	0.013	NA	NA	NL	0.0291	1 per Year	Grab
290 - Hexachlorobutadiene	NL	0.0031	NA	NA	NL	0.0075	1 per Year	Grab
293 - Napthalene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
294 - Nitrobenzene	NL	0.0041	NA	NA	NL	0.010	1 per Year	Grab
209 - 2-Nitrophenol	NL	0.0063	NA	NA	NL	0.011	1 per Year	Grab
272 - 4-Nitrophenol	NL	0.011	NA	NA	NL	0.0190	1 per Year	Grab
270 - 2,4-Dinitrophenol	NL	0.011	NA	NA	NL	0.0188	1 per Year	Grab
208 - 4,6-Dinitro-o-cresol	NL	0.012	NA	NA	NL	0.0424	1 per Year	Grab
175 - Phenol	NL	0.0023	NA	NA	NL	0.0040	1 per Year	Grab
170 - Bis(2-ethylhexyl) phthalate	NL	0.0158	NA	NA	NL	0.0427	1 per Year	Grab
206 - Di-n-butyl phthalate	NL	0.0041	NA	NA	NL	0.0087	1 per Year	Grab
285 - Diethyl phthalate	NL	0.012	NA	NA	NL	0.0310	1 per Year	Grab
286 - Dimethyl phthalate	NL	0.0029	NA	NA	NL	0.0072	1 per Year	Grab
276 - Benzo(a)anthracene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
277 - Benzo(a)pyrene	NL	0.0035	NA	NA	NL	0.0093	1 per Year	Grab
271 - 3,4-Benzofluoranthene	NL	0.0035	NA	NA	NL	0.0093	1 per Year	Grab
278 - Benzo(k)fluoranthene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
282 - Chrysene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
274 - Acenaphthylene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
275 - Anthracene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
288 - Fluorene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
295 - Phenanthrene	NL	0.0034	NA	NA	NL	0.0090	1 per Year	Grab
296 - Pyrene	NL	0.0038	NA	NA	NL	0.010	1 per Year	Grab

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EFFLUENT				MONITORING REQUIREMENTS				
CHARACTERISTICS	MONTHLY A	AVERAGE	WEEKLY		MAXIMUM			SAMPLE
OUTFALL 101	mg/L	kg/d	AVERAGE	MINIMUM	mg/L	kg/d	FREQUENCY	TYPE
220 - Tetrachloroethylene	NL	0.0034	NA	NA	NL	0.0086	1 per Year	Grab
222 - Toluene	NL	0.0040	NA	NA	NL	0.012	1 per Year	Grab
155 - Trichloroethylene	NL	0.0032	NA	NA	NL	0.0083	1 per Year	Grab
173 - Vinyl Chloride	NL	0.0159	NA	NA	NL	0.0410	1 per Year	Grab

^[1] The design flow of this treatment plant is 0.036 MGD

[&]quot;NA" means not applicable.

[&]quot;NL" means no limitation is established. Monitoring and reporting are required.

[&]quot;24 HC" means 24-hour composite.

[&]quot;1 per Year" means one sample collected each complete calendar year (January 1 – December 31) to be reported on the DMR due January 10 of the following year. The first annual monitoring period begins January 1, 2017.

A. <u>Limitations and Monitoring Requirements – Outfall 102</u>

- 4. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **102** Sewage Treatment Plant.
 - a. Such discharges shall be limited and monitored by the permittee as specified below:

			DISCH		MONITORING REQUIREMENTS			
EFFLUENT CHARACTERISTICS OUTFALL 102	CHARACTERISTICS MONTHLY WEEKLY			MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE	
	mg/L	kg/d	mg/L	kg/d				
001 - Flow (MGD) [1]	ľ	٧L	N	A	NA	NL	1 per Week	Estimate
003 - BOD ₅	30	NL	45	NL	NA	NA	1 per Month	Grab
004 - Total Suspended Solids	30	NL	45	NL	NA	NA	1 per Month	Grab
012 – Total Phosphorus	1	NL		NA		NL	1 per Year	Grab
013 – Total Nitrogen [3]	1	٧L	N	A	NA	NL	1 per Year	Calculated
068 - Total Kjeldahl Nitrogen	1	٧L	N	A	NA	NL	1 per Year	Grab
120 - E. coli (geometric mean)	126 N	/100mL	N	NA		NA	4 per Month	Grab (between 10 am and 4 pm)
157 - TRC contact [2]	1	NΑ	N	NA		NA	1 per Day	Grab
213 - TRC contact [2]	1	NΑ	NA		0.60 mg/L	NA	1 per Day	Grab
389 – Nitrate + Nitrite	1	NL	N	A	NA	NL	1 per Year	Grab

- [1] The design flow of this treatment plant is 0.0090 MGD
- [2] See Part I.B.1.
- [3] Total Nitrogen, which is the sum of TKN and Nitrate + Nitrite, shall be derived from the results of those tests.

b. There shall be no discharge of floating solids or visible foam in other than trace amounts.

[&]quot;NA" means not applicable.

[&]quot;NL" means no limitation is established. Monitoring and reporting are required.

[&]quot;4 per Month" means four samples in one calendar month, collected weekly.

[&]quot;1 per Year" means one sample collected each complete calendar year (January 1 – December 31) to be reported on the DMR due January 10 of the following year. The first annual monitoring period begins January 1, 2017.

A. <u>Limitations and Monitoring Requirements – Outfall 002</u>

5. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **002.** – Stormwater.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT		DISCHAR	GE LIMITS		MONITORING REQUIREMENTS	
CHARACTERISTICS OUTFALL 002	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
001 - Flow (MG)	NL	NA	NA	NL	1 per 6 Months	Estimate
003 - BOD ₅ (mg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
013 - Total Nitrogen (mg/L) [1]	NL	NA	NA	NL	1 per 6 Months	Calculated
068 - Total Kjeldahl Nitrogen (TKN) (mg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
361 – Iron, Total Recoverable(μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
410 - Aluminum, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
442 - Copper, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
448 - Zinc, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
922 - Magnesium, Total Recoverable (µg/L)	NL	NA	NA	NL	1 per 6 Months	Grab

[&]quot;NA" means not applicable.

- [1] Total Nitrogen is the sum of Total Kjeldahl Nitrogen and Nitrates plus Nitrites.
- b. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- c. See Part I.E. for additional stormwater management requirements.

[&]quot;NL" means no limitation is established. Monitoring and reporting are required.

[&]quot;Estimate" means an estimate of the total volume of the discharge during the storm event.

[&]quot;1 per 6 Months" means once per six months in accordance with the following schedule: First half of year (January 1 – June 30) to be reported on the DMR due July 10 of each year; second half of year (July 1 – December 31) to be reported on the DMR due January 10 of each year. The first semiannual monitoring period begins January 1, 2017.

A. <u>Limitations and Monitoring Requirements – Outfall 003</u>

6. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **003** – Stormwater.

a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT		DISCHAR	MONITORING REQUIREMENTS			
CHARACTERISTICS OUTFALL 003	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
001 - Flow (MG)	NL	NA	NA	NL	1 per 6 Months	Estimate
002 - pH (Standard Units)	NA	NA	NL	NL	1 per 6 Months	Grab
013 - Total Nitrogen (mg/L) [1]	NL	NA	NA	NL	1 per 6 Months	Calculated
068 - Total Kjeldahl Nitrogen (TKN) (mg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
408 - Selenium, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
442 - Copper, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
448 - Zinc, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab
922 - Magnesium, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab

[&]quot;NA" means not applicable.

- [1] Total Nitrogen is the sum of Total Kjeldahl Nitrogen and Nitrates plus Nitrites.
- b. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- c. See Part I.E. for additional stormwater management requirements.

[&]quot;NL" means no limitation is established. Monitoring and reporting are required.

[&]quot;Estimate" means an estimate of the total volume of the discharge during the storm event.

[&]quot;1 per 6 Months" means once per six months in accordance with the following schedule: First half of year (January 1 – June 30) to be reported on the DMR due July 10 of each year; second half of year (July 1 – December 31) to be reported on the DMR due January 10 of each year. The first semiannual monitoring period begins January 1, 2017.

A. <u>Limitations and Monitoring Requirements – Outfall 004</u>

- 7. During the period beginning with the permit's effective date and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number **004** Stormwater.
 - a. Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT		DISCHARG	SE LIMITS		MONITORING REQUIREMENTS		
CHARACTERISTICS OUTFALL 004	MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE	
001 - Flow (MG)	NL	NA	NA	NL	1 per 3 Months	Estimate	
004 – Total Suspended Solids (TSS) [2] (mg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	
012 – Total Phosphorus (mg/L) [2]	NL	NA	NA	NL	1 per 6 Months	Grab	
013 - Total Nitrogen (mg/L) [1]	NL	NA	NA	NL	1 per 6 Months	Calculated	
068 - Total Kjeldahl Nitrogen (TKN) (mg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	
361 - Total Recoverable Iron (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	
389 - Nitrite + Nitrate (mg/L) [2]	NL	NA	NA	NL	1 per 6 Months	Grab	
410 - Aluminum, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per Year	Grab	
440 - Cadmium, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 3 Months	Grab	
442 - Copper, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 3 Months	Grab	
448 - Zinc, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 3 Months	Grab	
922 - Magnesium, Total Recoverable (μg/L)	NL	NA	NA	NL	1 per 6 Months	Grab	

[&]quot;NA" means not applicable.

[&]quot;NL" means no limitation is established. Monitoring and reporting are required.

[&]quot;Estimate" means an estimate of the total volume of the discharge during the storm event.

[&]quot;1 per 3 Months" means monitoring in accordance with the following schedule: 1st quarter (January 1 – March 31); 2nd quarter (April 1 – June 30); 3rd quarter (July 1 – September 30); 4th quarter (October 1 – December 31). The DMR is due on the 10th of the month in the month following the quarter. The first quarterly monitoring period begins October 1, 2016.

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"1 per 6 Months" means once per six months in accordance with the following schedule: First half of year (January 1 – June 30) to be reported on the DMR due July 10 of each year; second half of year (July 1 – December 31) to be reported on the DMR due January 10 of each year. The first semiannual monitoring period begins January 1, 2017.

- [1] Total Nitrogen, which is the sum of TKN and Nitrate + Nitrite, shall be derived from the results of those tests.
- [2] Monitoring and reporting are only required during the first two years of the permit term (i.e. four monitoring periods).
- b. See Part I.E. for additional stormwater management requirements.
- c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

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B. Additional Limitations and Monitoring Requirements – Outfall 102 (Sewage Treatment Plant)

- Total Residual Chlorine Limitations and Monitoring Requirements Applying to Each Operating Chlorine Contact Tank
 - a. The permittee shall monitor the TRC at the outlet of each operating chlorine contact tank once per day by grab sample.
 - b. No more than 3 of all samples taken at the outlet of each chlorine contact tank shall be less than 1.5 mg/L for any one calendar month (DMR parameter 157).
 - No TRC sample collected at each outlet of the chlorine contact tank shall be less than 0.60 mg/L (DMR parameter 213).
 - d. If dechlorination facilities exist the samples above shall be collected prior to dechlorination.
- 2. If disinfection is by a method other than chlorination, *E. coli* shall be limited and monitored by the permittee as specified below and this requirement, if applicable, shall substitute for the TRC and *E. coli* requirements delineated elsewhere in Part I of this permit.

	MONTHLY GEOMETRIC MEAN	FREQUENCY	SAMPLE TYPE
E. coli	126 N/100mL	1/Week (between 10 am and 4 pm)	Grab

C. Other Requirements or Special Conditions

1. Notification Levels

The permittee shall notify the Department as soon as they know or have reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L)for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the Board.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (1) Five hundred micrograms per liter (500 μg/L);
 - (2) One milligram per liter for antimony (1 mg/L);
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - (4) The level established by the Board.

2. Operation and Maintenance Manual Requirement

The permittee shall maintain a current Operations and Maintenance (O&M) Manual for the treatment works that is in accordance with Virginia Pollutant Discharge Elimination System Regulations, 9VAC25-31 and Sewage Collection and Treatment Regulations, 9VAC25-790.

The O&M Manual and subsequent revisions shall include the manual effective date and meet Part II.K.2 and Part II.K.4 Signatory Requirements of the permit. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. The permittee shall operate the treatment works in accordance with the O&M Manual and

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shall make the O&M manual available to Department personnel for review during facility inspections. Within 30 days of a request by DEQ, the current O&M Manual shall be submitted to the DEQ Regional Office for review and approval.

The O&M manual shall detail the practices and procedures which will be followed to ensure compliance with the requirements of this permit. This manual shall include, but not necessarily be limited to, the following items, as appropriate:

- Permitted outfall locations and techniques to be employed in the collection, preservation, and analysis
 of effluent samples;
- b. Procedures for measuring and recording the duration and volume of treated wastewater discharged;
- c. Procedures for reporting any gaps in continuous pH data monitoring at the permitted outfalls;
- d. Documentation of known underground sewer integrity (infiltration/exfiltration) issues;
- e. Description of pretreatment activities (process sewer ponds and wet well);
- f. Discussion of Best Management Practices, if applicable;
- g. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants characterized in Part I.C.7 that will prevent these materials from reaching state waters. List type and quantity of wastes, fluids, and pollutants (e.g. chemicals) stored at this facility;
- h. Discussion of treatment works design, treatment works operation, routine preventative maintenance of units within the treatment works, critical spare parts inventory and record keeping;
- i. Plan for the management and/or disposal of waste solids and residues;
- j. Hours of operation and staffing requirements for the plant to ensure effective operation of the treatment works and maintain permit compliance;
- k. List of facility, local and state emergency contacts; and,
- I. Procedures for reporting and responding to any spills/overflows/treatment works upsets.

3. Licensed Operator Requirement

The permittee shall employ or contract at least one Class 3 licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the Board for Waterworks and Wastewater Works Operators and Onsite Sewage Professionals Regulations. The permittee shall notify the Department in writing whenever he/she is not complying, or has grounds for anticipating he/she will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

4. <u>95% Capacity Reopener (Outfall 102)</u>

A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to the Piedmont Regional Office when the monthly average flow influent to the sewage treatment plant reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the Piedmont Regional Office no later than 90 days from the third consecutive month for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

5. CTC & CTO Requirement (Outfall 102)

The permittee shall, in accordance with the DEQ Sewage Collection and Treatment Regulation (9VAC25-790), obtain a Certificate to Construct (CTC), and a Certificate to Operate (CTO) from the DEQ Office of Wastewater Engineering (for Water Quality Improvement Fund (WQIF) projects) or from the Piedmont Regional Office (for non-WQIF projects). The request for a CTC or CTO shall be submitted by the design engineer and owner to the DEQ Piedmont Regional Office Water Permit Manager prior to constructing wastewater treatment works and operating the treatment works, respectively. Non-compliance with the CTC or CTO shall be deemed a violation of the permit.

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Upon issuance of a CTC for nutrient removal technology, DEQ staff may initiate modification, or alternately, revocation and reissuance, of this permit, to include annual concentration limits based on the nutrient removal technology listed in the CTC. Upon issuance of a CTO, any nutrient removal facilities installed shall be operated to achieve design effluent nutrient concentrations.

6. Reliability Class (Outfall 102)

The permitted sewage treatment works shall meet Reliability Class I.

7. <u>Materials Handling and Storage</u>

Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation, and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of, and/or stored in such a manner and consistent with Best Management Practices, so as not to permit a discharge of such product, materials, industrial wastes, and/or other wastes to State waters, except as expressly authorized.

8. Nutrient Reopener

This permit may be modified or, alternatively, revoked and reissued:

- a. To incorporate technology-based effluent concentration limitations for nutrients in conjunction with the installation of nutrient control technology, whether by new construction, expansion or upgrade, or
- b. To incorporate alternative nutrient limitations and/or monitoring requirements, should:
 - i. the State Water Control Board adopt new nutrient standards for the water body receiving the discharge, including the Chesapeake Bay or its tributaries, or
 - ii. a future water quality regulation or statute require new or alternative nutrient control.

9. Water Quality Criteria Reopener

Should effluent monitoring indicate the need for any water quality-based limitations, this permit may be modified or alternatively revoked and reissued to incorporate appropriate limitations.

10. <u>Compliance Reporting</u>

a. The quantification levels (QL) shall be less than or equal to the following concentrations:

Effluent Parameter	Quantification Level
cBOD₅	5 mg/L
BOD ₅	5 mg/L
TSS	1.0 mg/L
Total Residual Chlorine	0.10 mg/L
Ammonia-N	0.20 mg/L
Total Phosphorous	0.10 mg/L
Dissolved Sulfide	0.10 mg/L

The QL is defined as the lowest concentration used to calibrate a measurement system in accordance with the procedures published for the method. It is the responsibility of the permittee to ensure that proper quality assurance/quality control (QA/QC) protocols are followed during the sampling and analytical procedures. QA/QC information shall be documented to confirm that appropriate analytical procedures have been used and the required QLs have been attained. The permittee shall use any method in accordance with Part II A of this permit.

b. **Monthly Average:** Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as it is reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL used for the analysis, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported monthly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each

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sample day to determine the daily quantity and report the monthly average of the calculated daily quantities. For monitoring frequencies encompassing multiple months, the monthly average value to be reported on the DMR shall be the maximum of the arithmetic monthly averages calculated for each calendar month during the monitoring period.

Weekly Average: Compliance with the weekly average limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each complete calendar week and entirely contained within the reporting month. The maximum value of the weekly averages thus determined shall be reported on the DMR. If all data are below the QL used for the analysis, then the weekly average shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported weekly average concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported concentration data (including the defined zeros) and flow data for each sample day to determine the daily quantity and report the maximum weekly average of the calculated daily quantities. For monitoring frequencies encompassing multiple months, the weekly average value to be reported on the DMR shall be the maximum of the arithmetic weekly averages calculated for each calendar week during the monitoring period.

Daily Maximum: Compliance with the daily maximum limitations and/or reporting requirements for the parameters listed in subsection a. of this permit condition shall be determined as follows: All concentration data below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as zero. All concentration data equal to or above the QL used for the analysis (QL must be less than or equal to the QL listed in a. above) shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each day during the reporting month. The maximum value of these daily averages thus determined shall be reported on the DMR as the Daily Maximum. If all data are below the QL used for the analysis (QL must be less than or equal to the QL listed in a. above), then the maximum value of the daily averages shall be reported as "<QL". If reporting for quantity is required on the DMR and the reported daily maximum concentration is <QL, then report "<QL" for the quantity. Otherwise use the reported daily average concentrations (including the defined zeros) and corresponding daily flows to determine daily average

quantities and report the maximum of the daily average quantities during the reporting month. For monitoring frequencies encompassing multiple months, the daily maximum value to be reported on the DMR shall be the maximum of the arithmetic daily averages calculated for each calendar day during the monitoring period.

Single Datum: Any single datum required shall be reported as "<QL" if it is less than the QL used for the analysis (QL must be less than or equal to the QL listed in a. above). Otherwise the numerical value shall be reported.

- c. **Significant Digits:** The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e., 5 always rounding up or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.
- d. **Nutrient Monitoring:** For Total Phosphorus, all daily concentration data below the quantification level (QL) for the analytical method used should be treated as half the QL. All daily concentration data equal to or above the QL for the analytical method used shall be treated as it is reported.

For Total Nitrogen (TN), if none of the daily concentration data for the respective species (i.e., TKN, Nitrates/Nitrites) are equal to or above the QL for the respective analytical methods used, the daily TN concentration value reported shall equal one half of the largest QL used for the respective species. If one of the data is equal to or above the QL, the daily TN concentration value shall be treated as that data point is reported. If more than one of the data is above the QL, the daily TN concentration value shall equal the sum of the data points as reported.

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e. **Dissolved Oxygen Limitations:** The limitations established in Part I.A.1 of this permit are defined to be monthly average minimums. That is, the monthly average of the dissolved oxygen concentrations must be at or above the effluent limitation in order to be in compliance with the limitation. If more than one dissolved oxygen analysis is made during the 24-hour period that represents a monitoring day, the minimum value only from that day's sampling shall be used in calculating the monthly average minimum. The monthly average minimum shall be reported as the dissolved oxygen concentration "minimum" on the Discharge Monitoring Report.

11. Sludge Use and Disposal (Outfall 102)

The permittee shall conduct all sewage sludge use or disposal activities according to the Sludge Management Plan (SMP) approved with the issuance of this permit. Any proposed changes in sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ approval 90 days prior to the effective date of the changes. Upon approval, the revised SMP becomes an enforceable part of the permit. The permit may be modified or alternatively revoked and reissued to incorporate limits or conditions necessitated by substantive changes in sewage sludge use or disposal practices.

12. <u>Sludge Reopener (Outfall 102)</u>

The DEQ may promptly modify or revoke and reissue this permit if any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

13. Total Maximum Daily Load (TMDL) Reopener

This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303 (d) of the Clean Water Act, imposes wasteload allocation, limits, or conditions on the facility that are not consistent with the permit requirements.

14. Closure Plan

If the permittee plans an expansion or upgrade to replace the existing treatment works, or if facilities are permanently closed, the permittee shall submit to the DEQ Piedmont Regional Office a closure plan for the existing treatment works. The plan shall address the following information at a minimum: Verification of elimination of sources and/or alternate treatment scheme; treatment, removal and final disposition of residual wastewater and solids; removal/demolition/disposal of structures, equipment, piping and appurtenances; site grading, and erosion and sediment control; restoration of site vegetation; access control; fill materials; and proposed land use (post-closure) of the site. The plan should contain proposed dates for beginning and completion of the work. The plan must be approved by the DEQ Piedmont Regional Office prior to implementation

15. pH Excursions

The pH shall be maintained between 6.0 and 9.0 standard units at Outfall 001 except as follows:

- a. The total time that pH values are outside the range of 6.0 and 9.0 standard units shall not exceed 7 hours and 26 minutes in any calendar month.
- b. No individual excursion outside the range of 6.0 to 9.0 standard units shall exceed 60 minutes.

16. Chilled Water Discharge

Accidental discharges of chilled water to Outfall 001 which are less than or equal to 5000 gallons per day in volume shall be considered an authorized discharge pursuant to this permit and shall be subject to the effluent limitations contained in this permit. (The chilled water contains a nitrite corrosion inhibitor and a fluorescent dye.)

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17. Concept Engineering Report

Prior to constructing any treatment works treating industrial wastewaters, the permittee shall submit a Concept Engineering Report (CER) to the DEQ Piedmont Regional Office. DEQ *written* approval shall be secured prior to constructing any wastewater treatment works. The permittee shall construct the wastewater treatment works in accordance with the approved CER. No later than 14 days following completion of construction of any project for which a CER has been approved, written notification shall be submitted to the DEQ Piedmont Regional Office certifying that, based on an inspection of the project, construction was completed in accordance with the approved CER. The written notification shall be certified by a professional engineer licensed in the Commonwealth of Virginia or signed in accordance with Part II.K of this permit. The installed wastewater treatment works shall be operated to achieve design treatment and effluent concentrations. Approval by the Department of Environmental Quality does not relive the owner of the responsibility for the correction of design and/or operational deficiencies. Noncompliance with the CER shall be deemed a violation of this permit.

Upon approval of a CER for the installation of nutrient removal technology, DEQ staff shall initiate modification, or alternately, revocation and reissuance of this permit to include annual concentration limits based on the technology proposed in the CER. Upon completion of construction in accordance with a CER that has been approved by the DEQ Piedmont Regional Office, any nutrient removal facilities installed shall be operated to achieve design effluent Total Nitrogen and Total Phosphorus concentrations.

18. <u>Ground Water Sampling Purge Water</u>

The permittee is hereby authorized to discharge sampling purge water from the ground water monitoring activities associated with the Resource Conservation and Recovery Act (RCRA) Corrective Action Plan. Purge water shall be discharged to the head works of the industrial wastewater treatment plant which discharges through internal outfall 101 and ultimately through Outfall 001. This permit may be modified or, alternatively, revoked and reissued if RCRA Corrective Action identifies an alternative disposal method of the sampling purge wastewater or if the purge water is found to interfere or is otherwise incompatible with the industrial wastewater treatment process.

D. Whole Effluent Toxicity Testing

1. Biological Monitoring

a. In accordance with the schedule in Part I.D.2. below, the permittee shall conduct annual acute toxicity tests for the duration of the permit. The permittee shall collect 24-hour flow-proportioned composite samples of final effluent from outfall 001.

The acute tests to use are:

48 Hour Static Acute Test using Ceriodaphnia dubia

These acute tests are to be conducted using a minimum of 5 dilutions, derived geometrically, for calculation of a valid LC₅₀. A retest of a non-acceptable test must be performed during the same compliance period as the test it is replacing.

- b. The test dilutions should be able to assess effluent toxicity at an acute LC50 \geq 5% equivalent to a TUa of \leq 20.
- c. The permittee may provide additional samples to address data variability. These data shall be reported and may be included in the evaluation of effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40CFR 136.3.
- d. The test data will be statistically evaluated by DEQ for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should DEQ evaluation of the data indicate that a limit is needed, the permit may be modified or, alternatively, revoked and reissued to include a WET limitation and compliance

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schedule. Following written notification from DEQ of the need for including a WET limitation, the toxicity tests of Part I.D.1.a may be discontinued.

e. The permit may be modified or revoked and reissued to include pollutant specific limits should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

2. Reporting Schedule

The permittee shall submit a copy of each toxicity test report in accordance with the following schedule:

Period	Monitoring Period	DMR/Report Due Dates
1 st Annual	January 1, 2017 - December 31, 2017	January 10, 2018
2 nd Annual	January 1, 2018 - December 31, 2018	January 10, 2019
3 rd Annual	January 1, 2019 - December 31, 2019	January 10, 2020
4 th Annual	January 1, 2020 - December 31, 2020	January 10, 2021

E. Stormwater Management Conditions

1. Stormwater Management Evaluation

The Stormwater Pollution Prevention Plan, (SWPPP), which is to be developed and maintained in accordance with subsection Part I.E.3 below, shall have a goal of reducing pollutants discharged from all the regulated industrial activity stormwater outfalls.

a. Pollutant Specific Screening

One goal of the SWPPP shall place emphasis on reducing, to the maximum extent practicable, the following pollutants in the outfalls noted below.

OUTFALL NO.	POLLUTANTS	COMPARATIVE VALUE
901	Total Recoverable Zinc	170 ug/L
901	Total Recoverable Copper	18 ug/L
004	Total Recoverable Zinc	170 ug/L
004	Total Recoverable Copper	8 ug/L
004	Total Recoverable Cadmium	5.0 ug

b. Whole Effluent Toxicity Testing

With the exception noted in Part I.E.1.d below, the permittee shall conduct annual acute toxicity tests on the outfalls noted in a above using grab samples of the discharge from the stormwater outfall. These acute screening tests shall be 48-hour static tests using *Ceriodaphnia dubia* and *Pimephales promelas*, conducted in such a manner and at sufficient dilutions for calculation of a valid LC_{50} . The tests shall be conducted on a calendar year basis with one copy of all results and all supporting information submitted with the annual report due by *February 10th* of each year. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3. Additional technical assistance in developing the procedures for these tests will be provided by the Department of Environmental Quality (DEQ), if requested by the permittee. If any of the biological tests are invalidated, an additional test shall be conducted within thirty (30) days of notification. If there is no discharge during this 30-day period, a sample must be taken during the first qualifying discharge.

- c. The permittee shall submit the following information with the results of the toxicity tests.
 - (1) The actual or estimated effluent flow at the time of the sampling.
 - (2) The time at which the discharge event began, the time at which the effluent was sampled, and the duration of the discharge event.

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d. Waiver of Toxicity Screening

The permittee may request the Department to waive the annual acute toxicity tests and reporting required by Part I.E.1.b above when the quarterly monitoring results for total recoverable copper, total recoverable zinc, and total recoverable cadmium as required by Part I A.2 and 7 of this permit, for the specified outfall are below the comparative value(s) noted in Part I.E.1.a. above for four consecutive quarters. The waiver may be implemented upon receipt of written approval from the Department and shall meet all conditions specified therein. All requirements of Part I.E.1.b shall remain in effect until the waiver is granted.

If quarterly monitoring results for total recoverable copper, total recoverable zinc or total recoverable cadmium at Outfalls 901 and 004 are detected at or above the comparative values noted in Part I.E.1.a after the waiver is granted, the permittee shall resume annual acute toxicity testing and reporting required by Part I.E.1.b at the start of the calendar quarter following the date of sample collection. Testing and reporting requirements shall then continue in accordance with Part I.E.1.b for the duration of the permit term.

e. The effectiveness of the SWPPP will be evaluated via the required monitoring for all parameters listed in Parts I.A.2, 5, 6, and 7 of this permit for the regulated stormwater outfalls, including the specific pollutants noted in a. above and the toxicity screening required by this special condition. Monitoring results that are above the comparative value for the specific pollutants in a. above or, in the case of toxicity, result in an LC₅₀ of less than 100% effluent will justify the need to reexamine the SWPPP and any best management practices (BMPs) being utilized for the affected outfalls. In addition, the permittee shall amend the SWPPP whenever there is a change in the facility or its operation which materially increases the potential for activities to result in a discharge of significant amounts of pollutants.

No later than February 10 of each year, the permittee shall submit to the DEQ Piedmont Regional Office an annual report which includes the pollutant-specific and biological monitoring data from the outfalls included in this condition along with a summary of any steps taken to modify either the SWPPP or any BMPs based on the monitoring data.

2. General Stormwater Special Conditions

a. Sample Type

For all stormwater monitoring required in Parts I.A.2, 5, 6, and 7 or other applicable sections of this permit, a minimum of one grab sample shall be taken. Unless otherwise specified, all such samples shall be collected from the discharge resulting from a storm event that occurs at least 72 hours from the previously measurable storm event (a "measurable storm event" is defined as a storm event that results in an actual discharge from the site). The required 72-hour storm event interval is waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first three hours of the discharge, and the permittee shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If stormwater discharges associated with industrial activity commingle with process or non-process water, then where practicable permittees must attempt to sample the stormwater discharge before it mixes with the non-stormwater discharge.

b. Recording of Results

For each measurement or sample taken pursuant to the storm event monitoring requirements of this permit, the permittee shall record and report with the Discharge Monitoring Reports (DMRs) the following information:

- (1) The date and duration (in hours) of the storm event(s) sampled;
- (2) The rainfall total (in inches) of the storm event which generated the sampled discharge; and
- (3) The duration between the storm event sampled and the end of the previous measurable storm event.

When a permittee is unable to collect stormwater samples required in Parts I.A.2, 5, 6, and 7 or other applicable sections of the permit, documentation explaining the facility's inability to obtain a sample (including dates/times the outfalls were viewed and/or sampling was attempted), of no rain event, or of no "measurable" storm event shall be submitted with the DMR and also maintained with the SWPPP. Acceptable documentation includes, but is not limited to, NCDC weather station data, local weather station data, facility rainfall logs, and other appropriate supporting data.

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c. Sampling Waiver

When a permittee is unable to collect stormwater samples required in Parts I.A.2, 5, 6, and 7 or other applicable sections of this permit within a specified sampling period due to adverse climatic conditions, the permittee shall collect a substitute sample from a separate qualifying event in the next period and submit these data along with the data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions or create inaccessibility for personnel (and may include such things as local flooding, high winds, hurricane, tornadoes, electrical storms) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

d. Representative Outfalls - Substantially Identical Discharges

If the facility has two or more outfalls that discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and stormwater management practices occurring within the drainage areas of the outfalls, the permittee may conduct monitoring on the effluent of just one of the outfalls and report that the observations also apply to the substantially identical outfall (s). The substantially identical outfall monitoring provisions apply to quarterly visual monitoring, benchmark monitoring and impaired waters monitoring. The substantially identical outfall monitoring provisions are not available for numeric effluent limits monitoring.

The permittee shall include the following information in the SWPPP:

- (1) The locations of the outfalls;
- (2) Why the outfalls are expected to discharge substantially identical effluents, including evaluation of monitoring data, where available; and
- (3) Estimates of the size of the drainage area (in square feet) for each of the outfalls; and
- e. Quarterly Visual Examination of Stormwater Quality.
 - (1) The permittee must perform and document a quarterly visual examination of a stormwater discharge associated with industrial activity from each outfall, except discharges exempted below. The examination(s) must be made at least once in each of the following three-month periods: January through March, April through June, July through September, and October through December. The visual examination shall be made during normal working hours. If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided that documentation is included with the monitoring records indicating that no runoff occurred. The documentation shall be signed and certified in accordance with Part II.K of this permit.
 - (2) Visual examinations must be made of samples collected in accordance with Part I.E.2. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. The examination must be conducted in a well-lit area. No analytical tests are required to be performed on the samples
 - (3) The visual examination reports must be maintained on-site with the Stormwater Pollution Prevention Plan (SWPPP). The report must include the outfall location, the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the stormwater discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution), and probable sources of any observed stormwater contamination.
- f. Authorized Non-Stormwater Discharges
 - (1) The following non-stormwater discharges are authorized by this permit:
 - (a) Discharges from fire fighting activities;
 - (b) Fire hydrant flushings;
 - (c) Potable water including water line flushings;

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- (d) Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- (e) Irrigation drainage;
- (f) Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- (g) Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
- (h) Routine external building washdown which does not use detergents;
- (i) Uncontaminated ground water or spring water;
- (j) Foundation or footing drains where flows are not contaminated with process materials; and
- (k) Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but NOT intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).
- (2) All other non-stormwater discharges are not authorized and shall either be eliminated or covered under a separate VPDES permit.
- g. Releases of Hazardous Substances or Oil in Excess of Reportable Quantities.

The discharge of hazardous substances or oil in the stormwater discharge(s) from the facility shall be prevented or minimized in accordance with the stormwater pollution prevention plan for the facility. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117 and 40 CFR 302 or § 62.1-44.34:19 of the Code of Virginia. Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period:

- (1) The permittee is required to notify the DEQ in accordance with the requirements of Part II.G as soon as he or she has knowledge of the discharge;
- (2) Where a release enters a municipal separate storm sewer system (MS4), the permittee shall also notify the owner or the MS4; and
- (3) The stormwater pollution prevention plan required by this permit shall be reviewed to identify measures to prevent the reoccurrence of such releases and to respond to such releases, and the plan shall be modified where appropriate.

h. Water Quality Protection

The discharges authorized by this permit shall be controlled as necessary to meet applicable water quality standards. DEQ expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards

i. Corrective actions

- (1) Data exceeding benchmarks concentration values.
 - (a) If the benchmark monitoring result exceeds the benchmark concentration value for that parameter, the permittee shall review the SWPPP and modify it as necessary to address any deficiencies that caused the exceedance. Revisions to the SWPPP shall be completed within 30 days after an exceedance is discovered. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part I.E.3.c Maintenance), implementation shall be completed before the next anticipated storm event if possible, but no later than 60 days after the exceedance is discovered, or as otherwise provided or approved by the DEQ Piedmont Regional Office. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the exceedance is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. Any control measure

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modifications shall be documented and dated, and retained with the SWPPP, along with the amount of time taken to modify the applicable control measure or implement additional control measures.

- (b) Natural background pollutant levels. If the concentration of a pollutant exceeds a benchmark concentration value, and the permittee determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, corrective action is not required provided that:
 - (i) The concentration of the benchmark monitoring result is less than or equal to the concentration of that pollutant in the natural background;
 - (ii) The permittee documents and maintains with the SWPPP the supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. The supporting rationale shall include any data previously collected by the facility or others (including literature studies) that describe the levels of natural background pollutants in the facility's stormwater discharges; and
 - (iii) The permittee notifies the DEQ Piedmont Regional Office on the DMR that the benchmark exceedances are attributable solely to natural background pollutant levels. Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the facility's site, or pollutants in run-on from neighboring sources which are not naturally occurring.
- (2) Corrective actions. The permittee must take corrective action whenever:
 - (a) Routine facility inspections, comprehensive site compliance evaluations, inspections by local, state or federal officials, or any other process, observation or event result in a determination that modifications to the stormwater control measures are necessary to meet the permit requirements; or
 - (b) There is any exceedance of an effluent limitation (including coal pile runoff), or TMDL wasteload allocation; or
 - (c) The DEQ Piedmont Regional Office determines, or the permittee becomes aware, that the stormwater control measures are not stringent enough for the discharge to meet applicable water quality standards.

The permittee shall review the SWPPP and modify it as necessary to address any deficiencies. Revisions to the SWPPP shall be completed within 30 days following the discovery of the deficiency. When control measures need to be modified or added (distinct from regular preventive maintenance of existing control measures described in Part I.E.3.c Maintenance), implementation must be completed before the next anticipated storm event if possible, but no later than 60 days after the deficiency is discovered, or as otherwise provided or approved by the DEQ Piedmont Regional Office. In cases where construction is necessary to implement control measures, the permittee shall include a schedule in the SWPPP that provides for the completion of the control measures as expeditiously as practicable, but no later than three years after the deficiency is discovered. Where a construction compliance schedule is included in the SWPPP, the plan shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure. The amount of time taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.

Any corrective actions taken shall be documented and retained with the SWPPP. Reports of corrective actions shall be signed in accordance with Part II K.

(3) Follow-up reporting. If at any time monitoring results indicate that discharges from the facility exceed an effluent limitation or a TMDL wasteload allocation, or the DEQ Piedmont Regional Office determines that discharges from the facility are causing or contributing to an exceedance of a water quality standard, immediate steps must be taken to eliminate the exceedances in accordance with the above Part I.E.2.i.2 (Corrective actions). Within 30 calendar days of implementing the relevant corrective action(s) an exceedance report shall be submitted to the DEQ Piedmont Regional Office. The following information shall be included in the report: permit number; facility name, address and location; receiving water; monitoring data from this event; an explanation of the situation; description of what has been done and the intended actions (should the corrective actions not yet be complete) to further reduce pollutants in the discharge; and an appropriate contact name and phone number.

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j. Additional Requirements for Salt Storage.

Storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes shall be enclosed or covered to prevent exposure to precipitation. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. All salt storage piles shall be located on an impervious surface. All runoff from the pile, and/or runoff that comes in contact with salt, including under drain systems, shall be collected and contained within a bermed basin lined with concrete or other impermeable materials., or within an underground storage tank(s), or within an above ground storage tank(s), or disposed of through a sanitary sewer (with the permission of the treatment facility). A combination of any or all of these methods may be used. In no case shall salt contaminated stormwater be allowed to discharge directly to the ground or to state waters.

3. Stormwater Pollution Prevention Plan

A stormwater pollution prevention plan (SWPPP) for the facility was required to be developed and implemented under the previous permit. The existing stormwater pollution prevention plan shall be reviewed and modified, as appropriate, to conform to the requirements of this section. Permittees shall implement the provisions of the stormwater pollution prevention plan as a condition of this permit.

The stormwater pollution prevention plan requirements of this permit may be fulfilled, in part, by incorporating by reference other plans or documents such as a spill prevention control and countermeasure (SPCC) plan developed for the facility under Section 311 of the Clean Water Act, or best management practices (BMP) programs otherwise required for the facility, provided that the incorporated plan meets or exceeds the plan requirements of Part I.E.3.b (Contents of the Plan). All plans incorporated by reference into the stormwater pollution prevention plan become enforceable under this permit. If a plan incorporated by reference does not contain all of the required elements of the SWPPP of Part I.E.3.b, the permittee shall develop the missing SWPPP elements and include them in the required plan.

- a. Deadlines for Plan Preparation and Compliance.
 - (1) The permittee shall prepare and implement the plan as expeditiously as practicable, but not later than 90 days from the effective date of the permit.
 - (2) Measures That Require Construction. In cases where construction is necessary to implement measures required by the plan, the plan shall contain a schedule that provides compliance with the plan as expeditiously as practicable, but no later than 3 years after the effective date of this permit. Where a construction compliance schedule is included in the plan, the schedule shall include appropriate nonstructural and/or temporary controls to be implemented in the affected portion(s) of the facility prior to completion of the permanent control measure.
- b. Contents of the Plan.

The contents of the SWPPP shall comply with the requirements listed below and those in Part I.E.4. The plan shall include, at a minimum, the following items:

- (1) Pollution Prevention Team. The plan shall identify the staff individuals by name or title who comprise the facility's stormwater pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, revising, and ensuring compliance with the facility's SWPPP. Specific responsibilities of each staff individual on the team shall be identified and listed.
- (2) Site Description. The plan shall include the following:
 - (a) Activities at the Facility. A description of the nature of the industrial activities at the facility.
 - (b) General Location Map. A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.
 - (c) Site Map. A site map identifying the following:
 - (i) The size of the property (in acres):
 - (ii) The location and extent of significant structures and impervious surfaces (roofs, paved areas and other impervious areas);

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- (iii) Locations of all stormwater conveyances including ditches, pipes, swales, and inlets, and the directions of stormwater flow (use arrows to show which ways stormwater will flow);
- (iv) Locations of all existing structural and source control BMPs;
- (v) Locations of all surface water bodies, including wetlands;
- (vi) Locations of potential pollutant sources identified under Part I.E.3.b.(3);
- (vii) Locations where significant spills or leaks identified under Part I.E.3.b.(4) have occurred;
- (viii) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail cars and tracks; transfer areas for substances in bulk; and machinery;
- (ix) Locations of stormwater outfalls and an approximate outline of the area draining to each outfall, and location of municipal storm sewer systems, if the stormwater from the facility discharges to them:
- (x) Location and description of all non-stormwater discharges;
- (xi) Location of any storage piles containing salt used for deicing or other commercial or industrial purposes;
- (xii) Locations and sources of runon to the site from adjacent property where the runon contains significant quantities of pollutants; and
- (xiii) Locations of all stormwater monitoring points.
- (d) Receiving Waters and Wetlands. The name of all surface waters receiving discharges from the site, including intermittent streams, dry sloughs, and arroyos. Provide a description of wetland sites that may receive discharges from the facility. If the facility discharges through a municipal separate storm sewer system (MS4), identify the MS4 operator, and the receiving water to which the MS4 discharges.
- (3) Summary of Potential Pollutant Sources. The plan shall identify each separate area at the facility where industrial materials or activities are exposed to stormwater. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, industrial production and processes, intermediate products, byproducts, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description shall include:
 - (a) Activities in the area. A list of the industrial activities exposed to stormwater (e.g., material storage, equipment fueling and cleaning, cutting steel beams);
 - (b) Pollutants. A list of the pollutant(s) or pollutant constituents (e.g., crankcase oil zinc, sulfuric acid, cleaning solvents, etc.) associated with each industrial activity. The pollutant list shall include all significant materials handled, treated, stored or disposed that have been exposed to stormwater in the three years prior to the date this SWPPP was prepared or amended. The list shall include any hazardous substances or oil at the facility.
- (4) Spills and Leaks. The SWPPP shall clearly identify areas where potential spills and leaks that can contribute pollutants to stormwater discharges can occur and their corresponding outfalls. The plan shall include a list of significant spills and leaks of toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a stormwater conveyance during the three-year period prior to the date this SWPPP was prepared or amended. The list shall be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.
- (5) Sampling Data. The plan shall include a summary of existing stormwater discharge sampling data taken at the facility. The summary shall include, at a minimum, any data collected during the previous permit term.

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(6) Stormwater Controls

- (a) Control measures shall be implemented for all the areas identified in Part I B 3 b (3) (Summary of Potential Pollutant Sources) to prevent or control pollutants in stormwater discharges from the facility. Regulated stormwater discharges from the facility include stormwater runon that commingles with stormwater discharges associated with industrial activity at the facility. The SWPPP shall describe the type, location and implementation of all control measures for each area where industrial materials or activities are exposed to stormwater. Selection of control measures shall take into consideration:
 - That preventing stormwater from coming into contact with polluting materials is generally more
 effective, and less costly, than trying to remove pollutants from stormwater;
 - (ii) Control measures generally shall be used in combination with each other for most effective water quality protection;
 - (iii) Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures;
 - (iv) That minimizing impervious areas at the facility can reduce runoff and improve groundwater recharge and stream base flows in local streams (however, care must be taken to avoid ground water contamination);
 - (v) Flow attenuation by use of open vegetated swales and natural depressions can reduce instream impacts of erosive flows;
 - (vi) Conservation or restoration of riparian buffers will help protect streams from stormwater runoff and improve water quality; and
 - (vii) Treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.
- (b) Nonnumeric technology-based effluent limits. The permittee shall implement the following types of control measures to prevent and control pollutants in the stormwater discharges from the facility, unless it can be demonstrated and documented that such controls are not relevant to the discharges (e.g., there are no storage piles containing salt).
 - (i) Good Housekeeping. The permittee shall keep clean all exposed areas of the facility that are potential sources of pollutants to stormwater discharges. Typical problem areas include areas around trash containers, storage areas, loading docks, and vehicle fueling and maintenance areas. The plan shall include a schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers.
 - (ii) Eliminating and Minimizing Exposure. To the extent practicable, manufacturing, processing and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) shall be located inside, or protected by a storm-resistant covering to prevent exposure to rain, snow, snowmelt, and runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9VAC25-31-120 E, thereby eliminating the need to have a permit.
 - (iii) Preventive Maintenance. The permittee shall have a preventive maintenance program that includes regular inspection, testing, maintenance and repairing of all industrial equipment and systems to avoid situations that could result in leaks, spills and other releases of pollutants in stormwater discharge from the facility. This program is in addition to the specific control measure maintenance required under Part I B 3 c (Maintenance of control measures).
 - (iv) Spill Prevention and Response Procedures. The plan shall describe the procedures that will be followed for preventing and responding to spills and leaks, including:
 - (A) Preventive measures, such as barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling;
 - (B) Response procedures, including notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing and cleaning up spills. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect or respond to a spill or leak shall be trained in these procedures

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- and have necessary spill response equipment available. If possible, one of these individuals shall be a member of the Pollution Prevention Team;
- (C) Procedures for plainly labeling containers (e.g., "used Oil," "Spent Solvents," "Fertilizers and Pesticides," etc.) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur; and
- (D).. Contact information for individuals and agencies that must be notified in the event of a spill shall be included in the SWPPP, and in other locations where it will be readily available.
- (v) Routine Facility Inspections. Facility personnel who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility, and who can also evaluate the effectiveness of control measures shall regularly inspect all areas of the facility where industrial materials or activities are exposed to stormwater. These inspections are in addition to, or as part of, the comprehensive site evaluation required under Part I.E.3.d. At least one member of the Pollution Prevention Team shall participate in the routine facility inspections.

The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit or written approval is received from the DEQ Piedmont Regional Office for less frequent intervals. At least once each calendar year, the routine facility inspection must be conducted during a period when a stormwater discharge is occurring.

Any deficiencies in the implementation of the SWPPP that are found shall be corrected as soon as practicable, but not later than within 30 days of the inspection, unless permission for a later date is granted in writing by the Director. The results of the inspections shall be documented in the SWPPP, and shall include at a minimum:

- (A) The inspection date and time;
- (B) The name and signature of the inspector(s);
- (C) Weather information and a description of any discharges occurring at the time of the inspection;
- (D) Any previously unidentified discharges of pollutants from the site;
- (E) Any control measures needing maintenance or repairs;
- (F) Any failed control measures that need replacement;
- (G) Any incidents of noncompliance observed; and
- (H) Any additional control measures needed to comply with the permit requirements.
- (vi) Employee Training. The permittee shall implement a stormwater employee training program for the facility. The SWPPP shall include a schedule for all types of necessary training, and shall document all training sessions and the employees who received the training. Training shall be provided for all employees who work in areas where industrial materials or activities are exposed to stormwater, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel, etc.). The training shall cover the components and goals of the SWPPP, and include such topics as spill response, good housekeeping, material management practices, control measure operation and maintenance, etc. The SWPPP shall include a summary of any training performed.
- (vii) Sediment and Erosion Control. The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction, landscaping, site grading), or other factors, have a potential for soil erosion. The permittee shall identify and implement structural, vegetative, and stabilization control measures to prevent or control on-site and off-site erosion and sedimentation. Flow velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel if the flows would otherwise create erosive conditions.
- (viii) Management of Runoff. The plan shall describe the stormwater runoff management practices (i.e., permanent structural control measures) for the facility. These types of control measures are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in stormwater discharges from the site.

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Structural control measures may require a separate permit under § 404 of the CWA and the Virginia Water Protection Permit Program Regulation (9 VAC 25-210) before installation begins.

c. Maintenance

The SWPPP shall include a description of procedures and a regular schedule for preventive maintenance of all control measures, and shall include a description of the back-up practices that are in place should a runoff event occur while a control measure is off-line. The effectiveness of nonstructural control measure shall also be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

All control measures identified in the SWPPP shall be maintained in effective operating condition and shall be observed at least annually during active operation (i.e., during a stormwater runoff event) to ensure that they are functioning correctly. Where discharge locations are inaccessible, nearby downstream locations shall be observed. The observations shall be documented in the SWPPP.

If site inspections required by Part I.E.3.b(6)(b)(v) (Routine Facility Inspections) or Part I.E.3.d (Comprehensive Site Compliance Evaluation) identify control measures that are not operating effectively, repairs or maintenance shall be performed before the next anticipated storm event. If maintenance prior to the next anticipated storm event is not possible, maintenance shall be scheduled and accomplished as soon as practicable. In the interim, back-up measures shall be employed and documented in the SWPPP until repairs or maintenance is complete. Documentation shall be kept with the SWPPP of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair or replacement, date(s) for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance or repair schedules.

d. Comprehensive Site Compliance Evaluation

The permittee shall conduct comprehensive site compliance evaluations at least once each calendar year. The evaluations shall be done by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility, and who can also evaluate the effectiveness of control measures. The personnel conducting the evaluations may be either facility employees or outside personnel hired by the facility.

- (1) Scope of the Compliance Evaluation. Evaluations shall include all areas where industrial materials or activities are exposed to stormwater, as identified in Part I.E.3.b.(3). The personnel shall evaluate:
 - (a) Industrial materials, residue or trash that may have or could come into contact with stormwater;
 - (b) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;
 - (c) Off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site;
 - (d) Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;
 - (e) Evidence of, or the potential for, pollutants entering the drainage system.;
 - (f) Evidence of pollutants discharging to surface waters at all facility outfalls, and the condition of and around the outfall, including flow dissipation measures to prevent scouring;
 - (g) Review of stormwater related training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of control measures, including BMPs; and
 - (h) Results of both visual and any analytical monitoring done during the past year shall be taken into consideration during the evaluation.
- (2) Based on the results of the evaluation, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by Part I.E.3.b.(2)(c); revise the description of controls required by Part I.E.3.b.(6) to include additional or modified control measures designed to correct problems identified). Revisions to the SWPPP shall be completed within 30 days following the evaluation, unless permission for a later date is granted in writing by the Director. If existing control measures need to be modified or if additional control measures are necessary, implementation shall be completed before the next anticipated storm event, if practicable, but not more than 60 days after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the DEQ Piedmont Regional Office;

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- (3) Compliance Evaluation Report. A report shall be written summarizing the scope of the evaluation, name(s) of personnel making the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP, including elements stipulated in Part I.E.3.d.(1) (a) through (h) above. Observations shall include such things as: the location(s) of discharges of pollutants from the site; location(s) of previously unidentified sources of pollutants; location(s) of control measures that need to be maintained or repaired; location(s) of failed control measures that need replacement; and location(s) where additional control measures are needed. The report shall identify any incidents of noncompliance that were observed. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II.K and maintained with the SWPPP.
- (4) Where compliance evaluation schedules overlap with routine inspections required under Part I.E.3.b.(6)(b)(v) the annual compliance evaluation may be used as one of the routine inspections.
- e. Signature and Plan Review.
 - (1) Signature/Location. The SWPPP, including revisions to the SWPPP to document any corrective actions taken as required by Part I.E.2.(i) (Corrective Actions) shall be signed in accordance with Part II K, dated, and retained on-site at the facility covered by this permit in accordance with Part II.B.2. All other changes to the SWPPP, and other permit compliance documentation, must be signed and dated by the person preparing the change or documentation.
 - (2) Availability. The permittee shall retain a copy of the current SWPPP required by this permit at the facility, and it shall be immediately available to the Department, EPA or the operator of an MS4 receiving discharges from the site at the time of an onsite inspection or upon request.
 - (3) Required Modifications. The permittee shall modify the SWPPP whenever necessary to address any corrective actions required by Part I.E.2.(i)(1) (Data exceeding benchmark concentration values) or Part I. E.2.(i) (Corrective Actions). Changes to the SWPPP shall be made in accordance with the corrective action deadlines in Part I.E.2.(i)(1) and Part I.E.2.(i), and shall be signed and dated in accordance with Part II K (Signatory Requirements).

The Director may notify the permittee at any time that the SWPPP, control measures, or other components of the facility's stormwater program do not meet one or more of the requirements of this permit. The notification shall identify specific provisions of the permit that are not being met, and may include required modifications to the stormwater program, additional monitoring requirements, and special reporting requirements. The permittee shall make any required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the Director, and shall submit a written certification to the Director that the requested changes have been made.

f. Maintaining an Updated SWPPP.

- (1) The permittee shall review and amend the SWPPP as appropriate whenever:
 - (a) There is construction or a change in design, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;
 - (b) Routine inspections or compliance evaluations determine that there are deficiencies in the control measures, including BMPs;
 - (c) Inspections by local, state, or federal officials determine that modifications to the SWPPP are necessary;
 - (d) There is a spill, leak or other release at the facility; or
 - (e) There is an unauthorized discharge from the facility.
- (2) SWPPP modifications shall be made within 30 calendar days after discovery, observation or event requiring a SWPPP modification. Implementation of new or modified BMPs (distinct from regular preventive maintenance of existing BMPs described in Part I.E.3.c) shall be initiated before the next storm event if possible, but no later than 60 days after discovery, or as otherwise provided or approved by the DEQ Piedmont Regional Office. The amount of time taken to modify a control measure or implement additional control measures shall be documented in the SWPPP.
- (3) If the SWPPP modification is based on a release or unauthorized discharge, include a description and date of the release, the circumstances leading to the release, actions taken in response to the release,

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and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements of Part II.G of this permit.

4. Sector Specific Permit Requirements

a. Stormwater Controls

In addition to the requirements of Part I.E.3, the plan shall include, at a minimum, the following items.

- (1) Controls for plastic products manufacturers. Plastic products manufacturing facilities shall describe and implement specific controls to minimize the discharge of plastic resin pellets in stormwater discharges from the facility. The following control measures (or their equivalents) shall be considered in the SWPPP: minimizing spills; cleaning up of spills promptly and thoroughly; sweeping thoroughly; pellet capturing; employee education; and disposal precautions.
- b. Benchmark monitoring and reporting requirements.

The permittee shall monitor their stormwater discharges for the pollutants of concern listed in Tables 1 through 4. Sampling may be waived in accordance with Part I.E.2.c. Benchmark concentration values, as included in Table 1 through 4 of this section, are not effluent limitations. Exceedance of a benchmark concentration does not constitute a violation of this permit and does not indicate that violation of a water quality standard has occurred; however, it does signal that modifications to the SWPPP are necessary, unless justification is provided in the comprehensive site compliance evaluation (Part I.E.3.d.). In addition, exceedance of benchmark concentrations may indicate the requirement for more specific pollutant prevention controls.

Table 1 - Benchmark Monitoring Requirements for Outfall 901		
Pollutants of Concern	Benchmark Concentration	
Total Recoverable Zinc	120 μg/L	
Total Kjeldahl Nitrogen (TKN)	1.5 mg/L	
Total Nitrogen	2.2 mg/L	
Total Recoverable Iron	1.0 mg/L	
Total Recoverable Aluminum	750 ug/L	
Total Recoverable Copper	18 ug/L	
Total Recoverable Magnesium	64 ug/L	

Table 2 - Benchmark Monitoring Requirements for Outfall 002		
Pollutants of Concern	Benchmark Concentration	
BOD ₅	30 mg/L	
Total Recoverable Zinc	120 μg/L	
Total Kjeldahl Nitrogen (TKN)	1.5 mg/L	
Total Nitrogen	2.2 mg/L	
Total Recoverable Iron	1.0 mg/L	
Total Recoverable Aluminum	750 ug/L	
Total Recoverable Copper	18 ug/L	
Total Recoverable Magnesium	64 ug/L	

Table 3 - Benchmark Monitoring Requirements for Outfall 003		
Pollutants of Concern	Benchmark Concentration	
рН	6.0 – 9.0 S.U.	
Total Recoverable Zinc	120 μg/L	
Total Kjeldahl Nitrogen (TKN)	1.5 mg/L	
Total Nitrogen	2.2 mg/L	
Total Recoverable Copper	18 ug/L	
Total Recoverable Selenium	5 ug/L	
Total Recoverable Magnesium	64 ug/L	

Table 4 - Benchmark Monitoring Requirements for Outfall 004		
Pollutants of Concern	Benchmark Concentration	
Total Recoverable Zinc	120 μg/L	
Total Kjeldahl Nitrogen (TKN)	1.5 mg/L	
Total Nitrogen	2.2 mg/L	
Total Recoverable Iron	1.0 mg/L	
Total Recoverable Aluminum	750 ug/L	
Total Recoverable Cadmium	2.1 ug/L	
Total Recoverable Copper	18 ug/L	
Total Recoverable Magnesium	64 ug/L	

5. Facilities in the Chesapeake Bay Watershed

- a. Owners of facilities in the Chesapeake Bay watershed shall monitor their industrial stormwater discharges for total suspended solids (TSS), total nitrogen (TN), and total phosphorus (TP) to characterize the contributions from their facility's specific industrial sector for these parameters. Samples shall be collected during each of the first four monitoring periods (i.e., the first two years of permit coverage). Monitoring periods are specified in Part I.A.2 and Part I.A.7. Samples shall be collected and analyzed in accordance with Part I.A.2 and Part I.A.7. Monitoring results shall be reported in accordance with Part I.C.10 and Part II.C, and retained in accordance with Part II.B.
- b. Chesapeake Bay TMDL wasteload allocations and Chesapeake Bay TMDL action plans
 - (1) EPA's Chesapeake Bay TMDL (December 29, 2010) includes wasteload allocations for VPDES permitted industrial stormwater facilities as part of the regulated stormwater aggregate load. EPA used data submitted by Virginia with the Phase I Chesapeake Bay TMDL Watershed Implementation Plan, including the number of industrial stormwater permits per county and the number of urban acres regulated by industrial stormwater permits, as part of their development of the aggregate load. Aggregate loads for industrial stormwater facilities were appropriate because actual facility loading data were not available to develop individual facility wasteload allocations. Virginia estimated the loadings from industrial stormwater facilities using actual and estimated facility acreage information, and TP, TN, and TSS loading values from the Northern Virginia Planning District Commission (NVPDC) Guidebook for Screening Urban Nonpoint Pollution Management Strategies, prepared for the Metropolitan Washington Council of Governments. Annandale, VA. November, 1979. The loading values used were as follows:

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TP - High (80%) imperviousness industrial; 1.5 lb/ac/yr

TN - High (80%) imperviousness industrial; 12.3 lb/ac/yr

TSS - High (80%) imperviousness industrial; 440 lb/ac/yr

The actual facility area information, and the TP, TN and TSS data collected for this permit will be used by DEQ to quantify the nutrient and sediment loads from VPDES permitted industrial stormwater facilities, and will be submitted to EPA to aid them in further refinements to their Chesapeake Bay TMDL model. The loading information will also be used by DEQ to determine any additional load reductions needed for industrial stormwater facilities for the next reissuance of this permit.

(2) Data analysis and Chesapeake Bay TMDL action plans. The permittee shall analyze the nutrient and sediment data collected in accordance with subdivision 5.b.(1) of this subsection to determine if additional action is needed for this permit term. The permittee shall average the data collected at the facility for each of the pollutants of concern (POC) (e.g., TP, TN and TSS) and compare the results to the loading values for TP, TN and TSS presented in subdivision 5.b.(2) of this subsection. To calculate the facility loadings, the permittee shall use either the actual annual average rainfall data for the facility location (in inches/year) or the Virginia annual average rainfall of 44.3 inches/year.

The following formula or a site specific, DEQ-approved calculation shall be used to determine the loading value:

 $L = 0.226 \times R \times C$ Equation (1)

where:

L = the Pollutant of Concern (POC) loading value (lb/acre/year) C = the POC average concentration of all facility samples (mg/L) 0.226 = unit conversion factor R = annual runoff (in/yr), calculated as: $R = P \times P_j \times R_v$

where:

P = annual rainfall (in/yr) [use the Virginia annual average of 44.3 in/yr, or site specific annual rainfall for your area of the State] P_j = the fraction of annual events that produce runoff (usually 0.9) R_v = the runoff coefficient, which can be expressed as: Rv = 0.05 + (0.9 x la) I_a = the impervious fraction [the ratio of facility impervious area to the total facility area] or.

 $I_a = AREA_{IMPERVIOUS} / AREA_{TOTAL}$

Substituting in Equation (1):

 $L = 0.226 \text{ x Px P}_i \text{ x } (0.05 + (0.9 \text{ x I}_a)) \text{ x C}$ Equation (2)

(3) If the calculated facility loading value for TP, TN or TSS is less than the corresponding loading value presented in subdivision 5.b.(2) of this subsection, then the calculations demonstrating that no reduction is necessary shall be submitted within 90 days from the end of the second year's monitoring period. The calculations shall include a site map with the total site area, the areas associated with industrial activity and the total impervious area. If the calculated facility loading value for TP, TN or TSS exceeds the corresponding loading value presented in subdivision 5.b.(2) of this subsection, then the permittee shall develop and submit a Chesapeake Bay TMDL Action Plan to DEQ for review and approval The plan shall include a site map with the total site area, the areas associated with industrial activity and the total impervious area. The permittee shall implement the applicable elements of the approved plan over the remaining term of this permit and achieve all the necessary reductions by June 30, 2024. The plan shall be submitted within 90 days from the end of the second year's monitoring period. The action plan shall include:

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- (i) A determination of the total pollutant load reductions for TP, TN and TSS (as appropriate) necessary to reduce the annual loads from industrial activities. This shall be determined by calculating the difference between the loading values listed in subdivision 5.b.(2) of this subsection, and the average of the sampling data for TP, TN or TSS (as appropriate) for the entire facility. The reduction applies to the total difference calculated for each pollutant of concern;
- (ii) The means and methods, such as management practices and retrofit programs, that will be utilized to meet the required reductions determined in subdivision 5.b.(3)(i) of this subsection, and a schedule to achieve those reductions by June 30, 2024. The schedule should include annual benchmarks to demonstrate the ongoing progress in meeting those reductions;
- (iii) The permittee may consider utilization of any pollutant trading or offset program in accordance with §§ 62.1-44.19:20 through 62.1-44.19:23 of the Code of Virginia, governing trading and offsetting, to meet the required reductions.
- (4) Permittees required to develop and implement a Chesapeake Bay TMDL Action Plan shall submit an annual report to the department by June 30th of each year describing the progress in meeting the required reductions.
- Discharges Through a Regulated MS4 to Waters Subject to the Chesapeake Bay TMDL

In addition to the requirements of this permit, any facility with industrial activity discharges through a regulated MS4 that is notified by the MS4 operator that the locality has adopted ordinances to meet the Chesapeake Bay TMDL shall incorporate measures and controls into their SWPPP to comply with applicable local TMDL ordinance requirements.

7. Expansion of Facilities That Discharge to Waters Subject to the Chesapeake Bay TMDL

Virginia's Phase I Chesapeake Bay TMDL Watershed Implementation Plan (November 29, 2010), states that the wasteloads from any expansion of an existing permitted facility discharging stormwater in the Chesapeake Bay watershed cannot exceed the nutrient and sediment loadings that were discharged from the expanded portion of the land prior to the land being developed for the expanded industrial activity.

- a. For any industrial activity area expansions (i.e., construction activities, including clearing, grading and excavation activities) that commence on or after the effective date of this permit, the permittee shall document in the SWPPP the information and calculations used to determine the nutrient and sediment loadings discharged from the expanded land area prior to the land being developed, and the measures and controls that were employed to meet the no net increase of stormwater nutrient and sediment loads as a result of the expansion of the industrial activity. Any land disturbance that is exempt from permitting under the VPDES construction stormwater general permit regulation (9VAC25-880) is exempt from this requirement.
- b. The permittee may use the VSMP water quality design criteria to meet the requirements of subdivision a. of this subsection. Under this criterion, the total phosphorus load shall not exceed the greater of:
 - (i) The total phosphorus load that was discharged from the expanded portion of the land prior to the land being developed for the industrial activity; or
 - (ii) 0.41 pounds per acre per year.

Compliance with the water quality design criteria may be determined utilizing the Virginia Runoff Reduction Method or another equivalent methodology approved by the board. Design specifications and pollutant removal efficiencies for specific BMPs can be found on the Virginia Stormwater BMP Clearinghouse website at http://www.vwrrc.vt.edu/swc.

c. The permittee may consider utilization of any pollutant trading or offset program in accordance with §§ 62.1-44.19:20 through 62.1-44.19:23 of the Code of Virginia, governing trading and offsetting, to meet the no net increase requirement.

CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

- 1. Samples and measurements required by this permit shall be taken at the permit designated or approved location and be representative of the monitored activity.
 - a. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
 - b. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.
 - c. Samples taken shall be analyzed by a laboratory certified under 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.
- 2. Any pollutant specifically addressed by this permit that is sampled or measured at the permit designated or approved location more frequently than required by this permit shall meet the requirements in A 1 a through c above and the results of this monitoring shall be included in the calculations and reporting required by this permit.
- 3. Operational or process control samples or measurements shall not be taken at the designated permit sampling or measurement locations. Operational or process control samples or measurements do not need to follow procedures approved under Title 40 Code of Federal Regulations Part 136 or be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. Records

- 1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
- 2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

 The permittee shall submit the results of the monitoring required by this permit by hard copy or by E-DMR not later than the 10th day of the month after the monitoring period, unless another reporting schedule is specified elsewhere in this permit. Monitoring results sent by hard copy shall be submitted to:

DEQ - Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

- 2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved, or specified by the Department.
- 3. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. <u>Duty to Provide Information</u>

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

- 1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
- 2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges.

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

- 1. A description of the nature and location of the discharge;
- 2. The cause of the discharge;
- 3. The date on which the discharge occurred;

- The length of time that the discharge continued;
- 5. The volume of the discharge;
- 6. If the discharge is continuing, how long it is expected to continue;
- 7. If the discharge is continuing, what the expected total volume of the discharge will be; and
- 8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit. Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse effects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

- 1. Unusual spillage of materials resulting directly or indirectly from processing operations;
- 2. Breakdown of processing or accessory equipment;
- 3. Failure or taking out of service some or all of the treatment works; and
- 4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

- 1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
- 2. A written report shall be submitted within 5 days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I. if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I.1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I.2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I shall be made to the Department's Regional Office at pro.SSO-UD@deq.virginia.gov or (804) 572-5020. For telephone reports outside normal working hours (before 8:30 am and after 5:00 pm Monday through Friday and anytime Saturday through Sunday), follow the instructions on the voicemail to reach the appropriate staff. For emergencies, the Virginia Department of Emergency Management maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

- 1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
 - (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- 2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

- 1. Applications. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

- 2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II K 1;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - c. The written authorization is submitted to the Department.
- 3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.
- 4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. <u>Duty to Mitigate</u>

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.

2. Notice

- a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
- b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.

3. Prohibition of bypass.

- Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage:
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of

equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

- (3) The permittee submitted notices as required under Part II U 2.
- b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset

- 1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
- 2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II I 2; and
 - The permittee complied with any remedial measures required under Part II S.
- 3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

- 1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- 4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of Permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and

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incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.

- 2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.